



6BC7

TRIPLE DIODE

9-PIN MINIATURE TYPE

6BC7

GENERAL DATA

Electrical:

Heater, for Unipotential Cathodes:

Voltage 6.3 ac or dc volts

Current 0.450 amp

Direct Interelectrode Capacitances (Approx.):^oPlate No.1 to Cathode No.1,
Heater, and Internal Shield 3.5 μ fPlate No.2 to Cathode No.2,
Heater, and Internal Shield 5.5 μ fPlate No.3 to Cathode No.3,
Heater, and Internal Shield 3.5 μ f^o With no external shield.

Mechanical:

Mounting Position Any

Maximum Overall Length 2-3/16"

Maximum Seated Length 1-15/16"

Length, Base Seat to Bulb Top (Excluding tip) . . . 1-9/16" \pm 3/32"

Maximum Diameter 7/8"

Bulb T-6-1/2

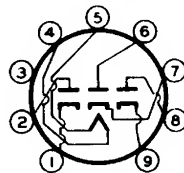
Base Small Button Noval 9-Pin (JETEC No.E9-1)

Basing Designation for BOTTOM VIEW 9R

Pin 1 - Cathode of
Diode No.3Pin 2 - Plate of
Diode No.3Pin 3 - Internal
Shield

Pin 4 - Heater

Pin 5 - Heater

Pin 6 - Plate of
Diode No.2Pin 7 - Cathode of
Diode No.2Pin 8 - Plate of
Diode No.1Pin 9 - Cathode of
Diode No.1

EACH DIODE

Maximum Ratings, Design-Center Values:

PEAK INVERSE PLATE VOLTAGE 330 max. volts

PEAK PLATE CURRENT^o 54 max. ma

DC OUTPUT CURRENT 12 max. ma

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode . . . 200 max. volts

Heater positive with respect to cathode . . . 200 max. volts

CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN

	Note	Min.	Av.	Max.	
Heater Current	1	0.410	0.450	0.490	amp
Plate Current (1) (Each Unit)	1,2	-	15	21	μ amp

^o In rectifier service, the minimum total effective plate-supply impedance per plate is 560 ohms.

MARCH 1, 1954

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

TENTATIVE DATA

6BC7

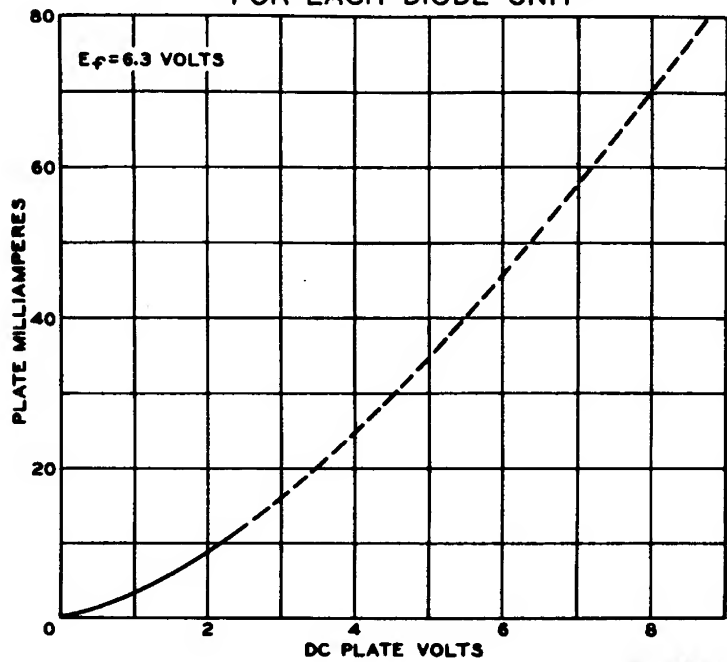


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	Note	Min.	Avg.	Max.	
Plate Current (2) (Each Unit)	1,3	18	35	65	ma
Ratio of Plate Current of Unit No.3 to Plate Current of Unit No.1 .	1,3	0.77	1	1.3	

Note 1: With 6.3 volts ac or dc on heater.
Note 2: With plate voltage of 0 volts, and plate load resistance of 40000 ohms. Each unit tested separately.
Note 3: With plate voltage of 5 volts and no plate load resistance. Each unit tested separately.

AVERAGE PLATE CHARACTERISTIC
FOR EACH DIODE UNIT

92CS-8219

MARCH 1, 1954

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